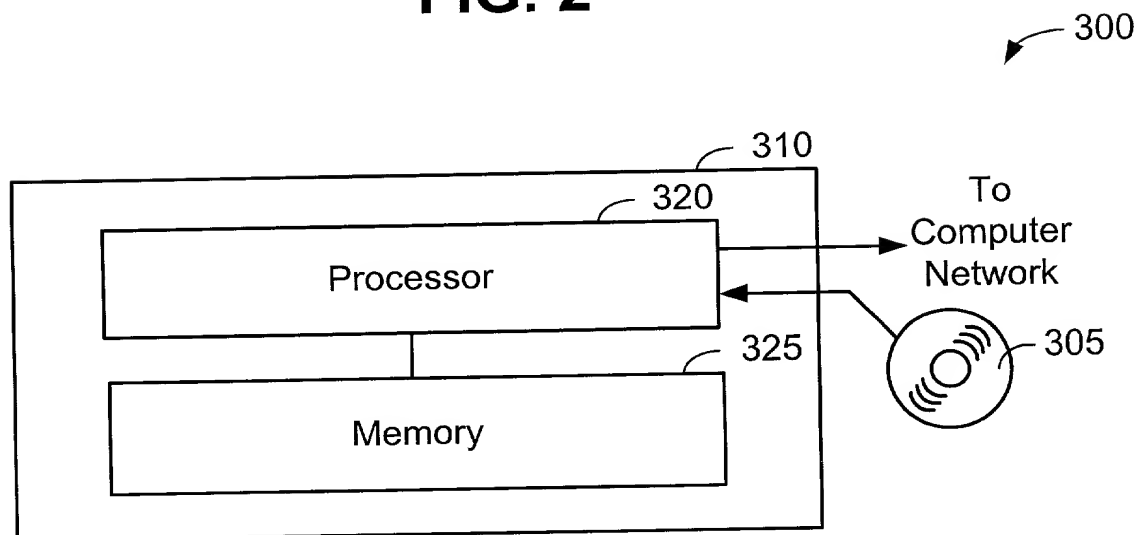


FIG. 1

| residue       | consensus |
|---------------|-----------|
| Arginine      | -1.76     |
| Lysine        | -1.10     |
| Aspartic acid | -0.72     |
| Glutamine     | -0.69     |
| Asparagine    | -0.64     |
| Glutamic acid | -0.62     |
| Histidine     | -0.40     |
| Serine        | -0.26     |
| Threonine     | -0.18     |
| Proline       | -0.07     |
| Tyrosine      | 0.02      |
| Cysteine      | 0.04      |
| Glycine       | 0.16      |
| Alanine       | 0.25      |
| Methionine    | 0.26      |
| Tryptophan    | 0.37      |
| Leucine       | 0.53      |
| Valine        | 0.54      |
| Phenylalanine | 0.61      |
| Isoleucine    | 0.73      |

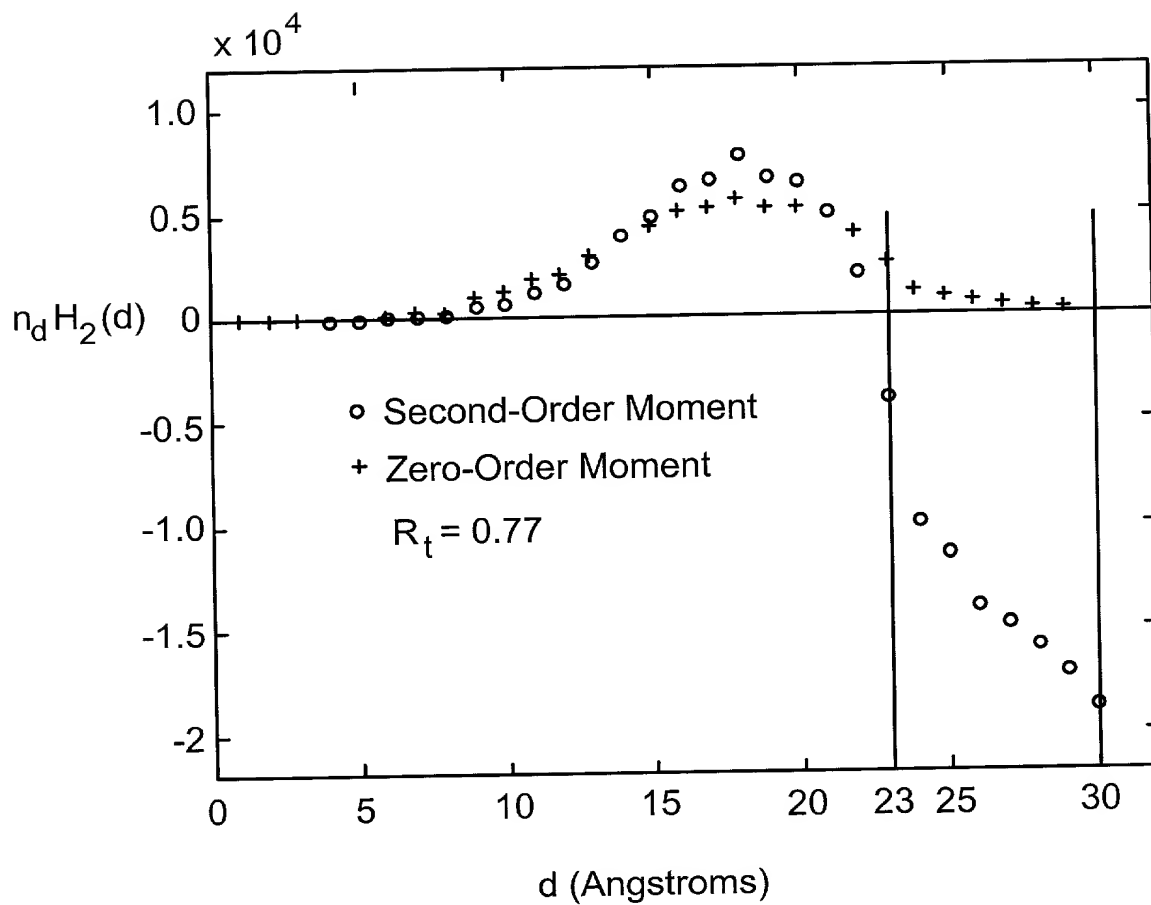
**FIG. 2**



**FIG. 3**

| pdb id         | number | pdb id           | number |
|----------------|--------|------------------|--------|
| 1ORC           | 63     | 1BN1- $\alpha$   | 257    |
| 1CDZ           | 96     | 2DRI             | 271    |
| 1NEU           | 115    | 1AUA             | 296    |
| 1DZO- $\alpha$ | 120    | 1LDM             | 329    |
| 1A4V           | 123    | 1FSZ             | 334    |
| 1AT0           | 125    | 1UBY             | 348    |
| 1PDO           | 129    | 1A26             | 351    |
| 2SNS           | 141    | 1PHC             | 405    |
| 1CQ2- $\alpha$ | 153    | 1BGV             | 449    |
| 1PHR           | 154    | 3PBG             | 468    |
| 1CTQ           | 166    | 1GAI- $\alpha$   | 472    |
| 121P           | 166    | 3COX- $\alpha$   | 500    |
| 1DZV           | 206    | 1FEH             | 574    |
| 1AUN           | 208    | B_1FJF- $\alpha$ | 234    |
| 1LBU           | 213    | C_1FJF- $\alpha$ | 206    |
| 2ACT           | 218    | D_1FJF- $\alpha$ | 208    |
| 1AKZ           | 223    |                  |        |

**FIG. 4**

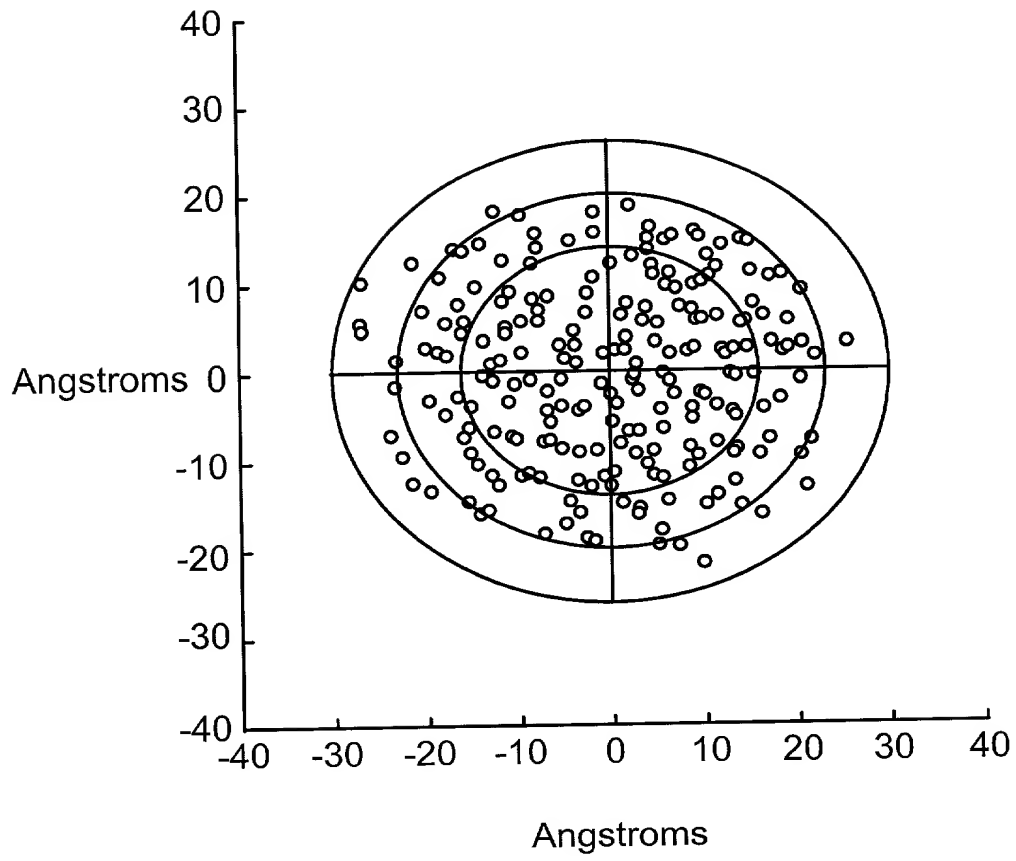


**FIG. 5**

| d(Ang.) | $n_d$ | $H_0(d)$ | $H_2(d)$ |
|---------|-------|----------|----------|
| 4       | 1     | 0.288    | 2.62     |
| 5       | 1     | 0.288    | 2.62     |
| 6       | 5     | 0.607    | 16.86    |
| 7       | 7     | 0.657    | 22.28    |
| 8       | 7     | 0.657    | 22.28    |
| 9       | 13    | 0.842    | 45.1     |
| 10      | 16    | 0.779    | 44.53    |
| 11      | 24    | 0.738    | 54.44    |
| 12      | 27    | 0.75     | 60.8     |
| 13      | 40    | 0.675    | 67.57    |
| 14      | 53    | 0.645    | 75.13    |
| 15      | 63    | 0.606    | 76.76    |
| 16      | 77    | 0.574    | 81.75    |
| 17      | 89    | 0.51     | 74.23    |
| 18      | 101   | 0.487    | 77.2     |
| 19      | 114   | 0.403    | 58.94    |
| 20      | 138   | 0.328    | 47.12    |
| 21      | 156   | 0.266    | 32.14    |
| 22      | 168   | 0.211    | 12.68    |
| 23      | 184   | 0.127    | -21.54   |
| 24      | 200   | 0.063    | -49.53   |
| 25      | 208   | 0.048    | -54.96   |
| 26      | 215   | 0.029    | -64.99   |
| 27      | 218   | 0.023    | -67.81   |
| 28      | 220   | 0.016    | -72.45   |
| 29      | 221   | 0.008    | -77.65   |
| 30      | 223   | 0        | -84.67   |

**FIG. 6**

FOR RELEASE

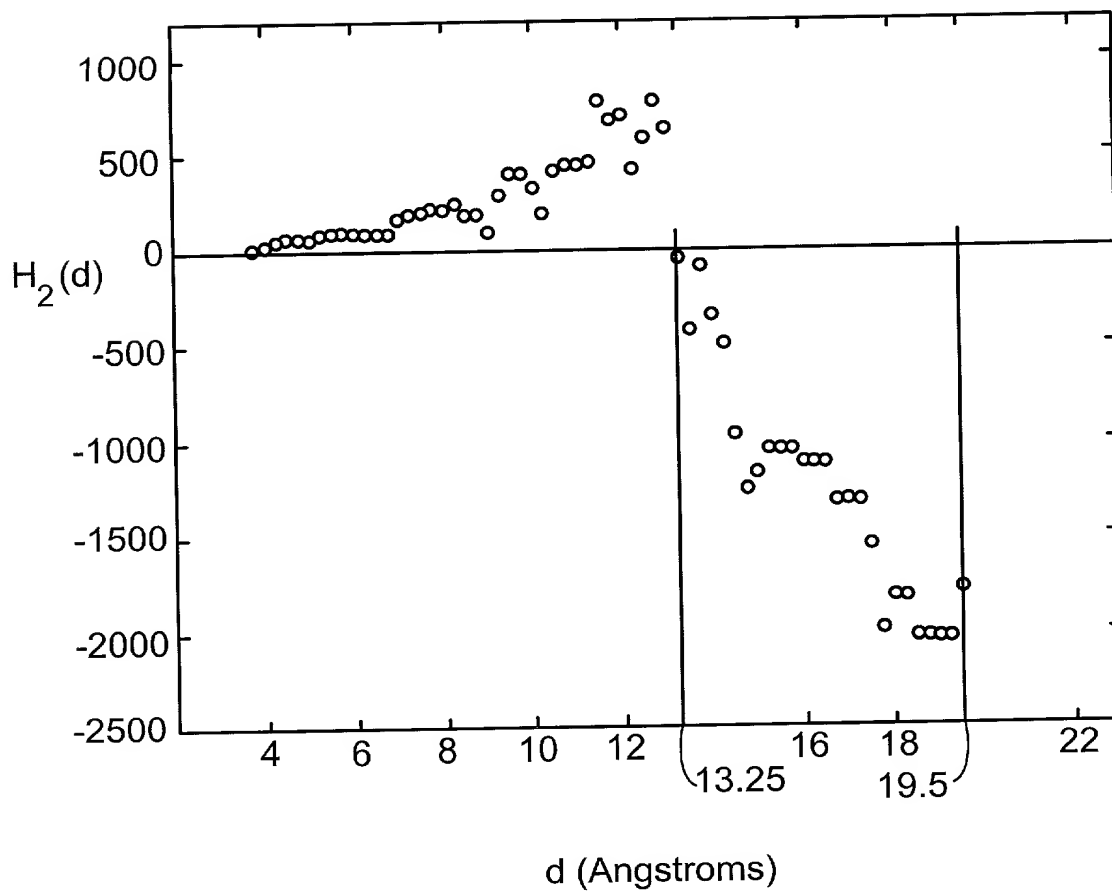


**FIG. 7**

| d(Ang.) | $n_d$ | $H_0(d)$ | $H_2(d)$ |
|---------|-------|----------|----------|
| 4       | 1     | -0.421   | -3.84    |
| 5       | 1     | -0.421   | -3.84    |
| 6       | 5     | -0.486   | -13.50   |
| 7       | 7     | -0.518   | -17.11   |
| 8       | 7     | -0.518   | -17.11   |
| 9       | 13    | -0.238   | -6.41    |
| 10      | 16    | -0.187   | -3.92    |
| 11      | 24    | -0.025   | 8.41     |
| 12      | 27    | 0.011    | 11.64    |
| 13      | 40    | 0.041    | 12.76    |
| 14      | 53    | 0.040    | 10.66    |
| 15      | 63    | 0.058    | 14.02    |
| 16      | 77    | -0.074   | -17.48   |
| 17      | 89    | -0.003   | 1.23     |
| 18      | 101   | -0.008   | -0.24    |
| 19      | 114   | -0.024   | -5.92    |
| 20      | 138   | -0.021   | -4.35    |
| 21      | 156   | -0.009   | -0.19    |
| 22      | 168   | -0.008   | -0.19    |
| 23      | 184   | 0.004    | 5.15     |
| 24      | 200   | 0.009    | 7.99     |
| 25      | 208   | 0.018    | 13.58    |
| 26      | 215   | 0.034    | 23.84    |
| 27      | 218   | 0.024    | 16.36    |
| 28      | 220   | 0.015    | 10.03    |
| 29      | 221   | 0.011    | 6.64     |
| 30      | 223   | 0.000    | -2.56    |

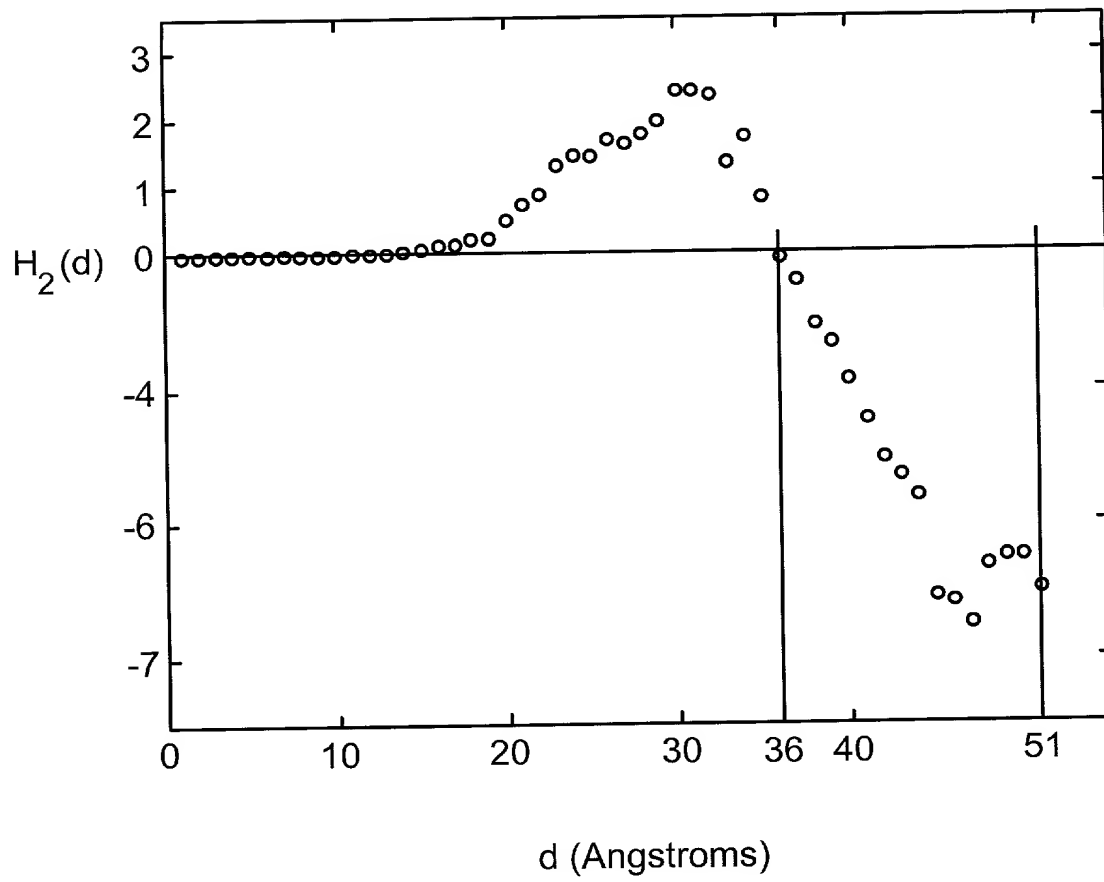
**FIG. 8**

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**FIG. 9**

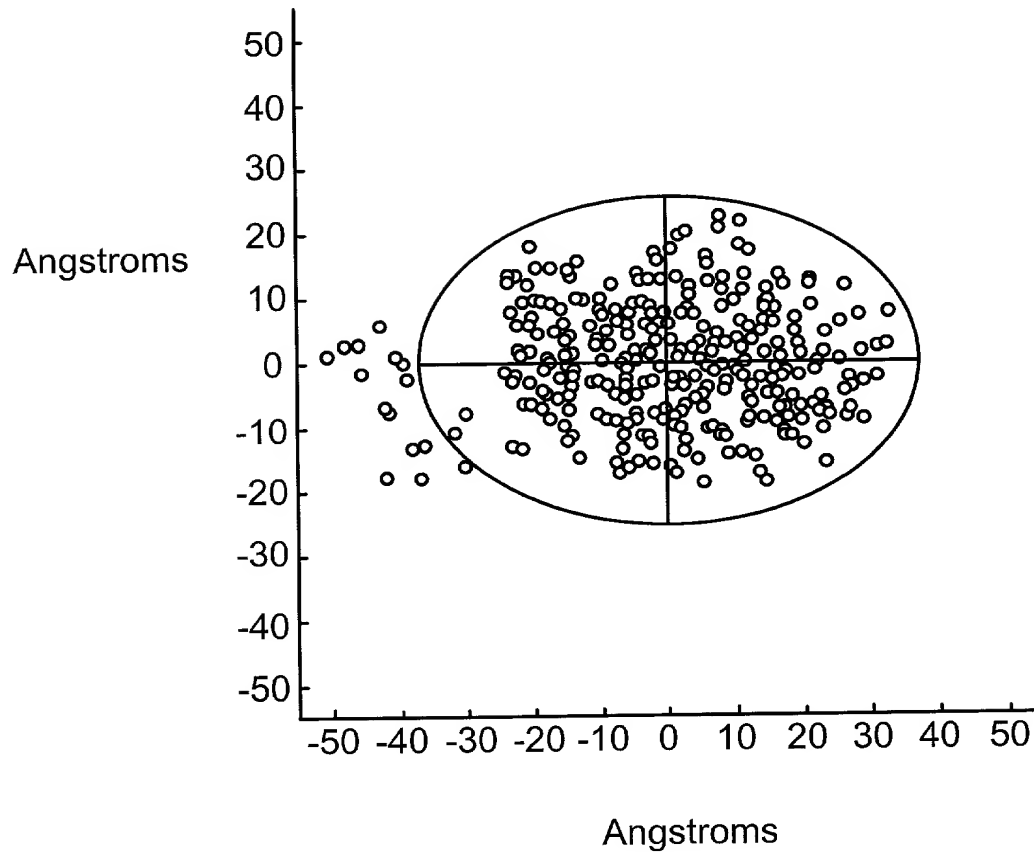




**FIG. 10**

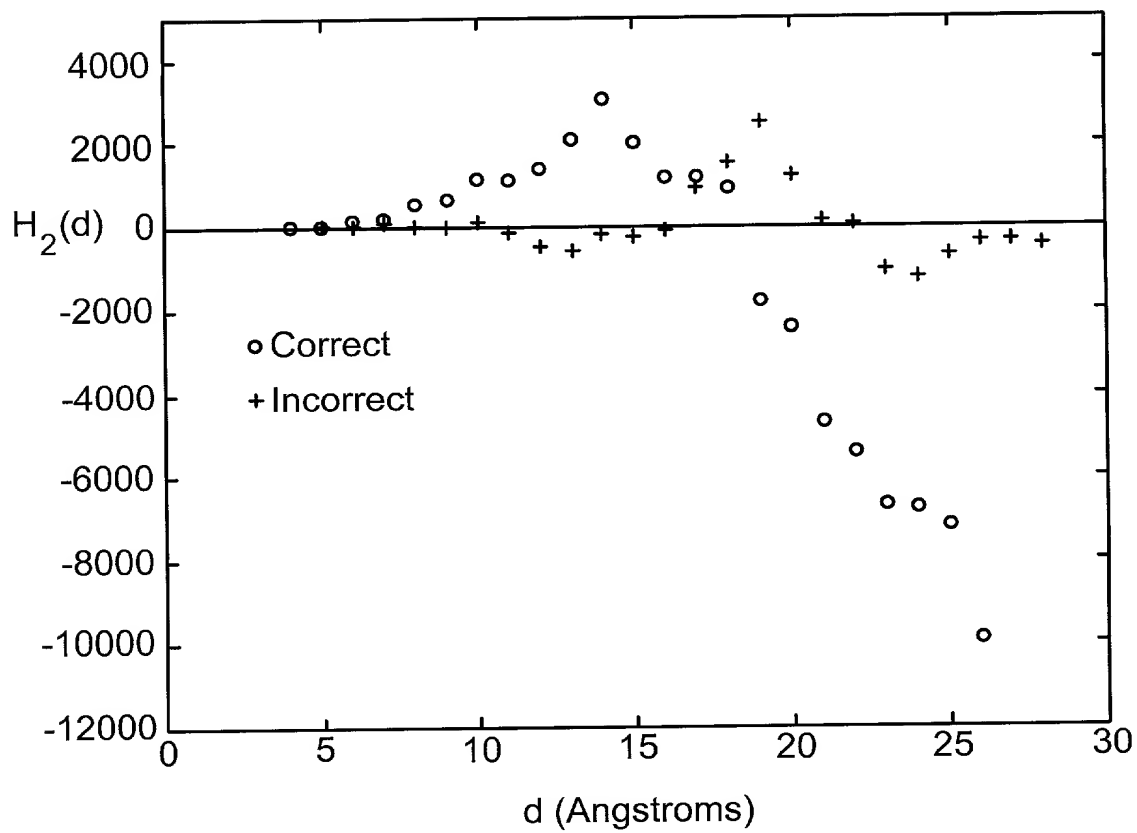
| pdb id         | d <sub>-</sub> /d <sub>0</sub> | Rt   | spherical | pdb id           | d <sub>-</sub> /d <sub>0</sub> | Rt   | spherical |
|----------------|--------------------------------|------|-----------|------------------|--------------------------------|------|-----------|
| 1ORC           | 14/20                          | 0.70 | 0.68      | 1BN1- $\alpha$   | 23/30                          | 0.8  | 0.72      |
| 1CDZ           | 18/23                          | 0.78 | 0.73      | 2DRI             | 31/37                          | 0.8  | 0.94      |
| 1NEU           | 18/28                          | 0.64 | 0.64      | 1AUA             | 28/34                          | 0.8  | 0.79      |
| 1DZO- $\alpha$ | 21/29                          | 0.72 | 0.68      | 1LDM             | 30/37                          | 0.8  | 0.71      |
| 1A4V           | 20/29                          | 0.69 | 0.63      | 1FSZ             | 25/34                          | 0.7  | 0.70      |
| 1AT0           | 19/25                          | 0.76 | 0.74      | 1UBY             | 30/43                          | 0.70 | 0.70      |
| 1PDO           | 18/23                          | 0.78 | 0.70      | 1A26             | 29/41                          | 0.71 | 0.68      |
| 2SNS           | 20/28                          | 0.71 | 0.63      | 1PHC             | 29/38                          | 0.8  | 0.73      |
| 1CQ2- $\alpha$ | 17/25                          | 0.68 | 0.70      | 1BGV             | 30/38                          | 0.8  | 0.76      |
| 1PHR           | 19/26                          | 0.73 | 0.69      | 3PBG             | 29/37                          | 0.8  | 0.77      |
| 1CTQ           | 19/25                          | 0.76 | 0.79      | 1GAI- $\alpha$   | 27/37                          | 0.7  | 0.66      |
| 121P           | 19/25                          | 0.76 | 0.75      | 3COX- $\alpha$   | 30/38                          | 0.8  | 0.68      |
| 1DZV           | 26/34                          | 0.76 | 0.74      | 1FEH             | 36/51                          | 0.7  | 0.63      |
| 1AUN           | 22/29                          | 0.76 | 0.71      | B_1FJF- $\alpha$ | 25/43                          | 0.6  | 0.49      |
| 1LBU           | 20/29                          | 0.69 | 0.58      | C_1FJF- $\alpha$ | 26/36                          | 0.7  | 0.73      |
| 2ACT           | 22/28                          | 0.79 | 0.70      | D_1FJF- $\alpha$ | 29/33                          | 0.9  | 0.81      |
| 1AKZ           | 23/30                          | 0.77 | 0.72      |                  |                                |      |           |

**FIG. 11**



**FIG. 12**

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**FIG. 13**